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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	Jul 15	Data from 1960-1976 added to RDISCLOSURE
NEWS 5	Jul 21	Identification of STN records implemented
NEWS 6	Jul 21	Polymer class term count added to REGISTRY
NEWS 7	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 8	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 9	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 10	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS 11	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS 12	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS 13	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS 14	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS 15	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS 16	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Righ Truncation
NEWS 17	AUG 18	Simultaneous left and right truncation added to ANABSTR

NEWS EXPRESS	April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
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NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:52:31 ON 22 SEP 2003

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'REGISTRY' ENTERED AT 09:52:46 ON 22 SEP 2003
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STRUCTURE FILE UPDATES:   21 SEP 2003  HIGHEST RN 590345-44-1
DICTIONARY FILE UPDATES:  21 SEP 2003  HIGHEST RN 590345-44-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

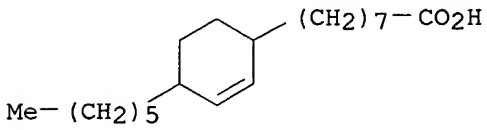
Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e 2-Cyclohexene-1-octanoic acid, 5(or 6)-carboxy-4-hexyl-/cn
E1            1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-(ETHOXYCARBONYL)-4-(3
                     -HEXENYL)-, METHYL ESTER/CN
E2            1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-(3-HEXENYL)
                     -/CN
E3            1 --> 2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-/CN
E4            1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-, .AL
                     PHA.-ETHYL ESTER/CN
E5            1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-, .AL
                     PHA.-PENTYL ESTER/CN
E6            1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-, .AL
                     PHA.-PENTYL ESTER, COMPD. WITH 2,2',2''-NITRILOTRIS(ETHANOL)
                      (1:1)/CN
E7            1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-, .AL
                     PHA.-PENTYL ESTER, COMPD. WITH 2,2'-IMINOBIS(ETHANOL) (1:1)/
                     CN
E8            1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-, .AL
                     PHA.-PENTYL ESTER, COMPD. WITH 2-AMINOETHANOL (1:1)/CN
E9            1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-, 2-(
                     DIBUTYLAMINO)ETHYL ESTER/CN
E10           1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-, 2-B
                     UTOXYETHYL ESTER/CN
E11           1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-, BAR
                     IUM SALT/CN
E12           1      2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-, CAL
                     CIUM SALT/CN

=> e3
L1            1 "2-CYCLOHEXENE-1-OCTANOIC ACID, 5(OR 6)-CARBOXY-4-HEXYL-"/CN
```

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
RN 53980-88-4 REGISTRY
CN **2-Cyclohexene-1-octanoic acid, 5(or 6)-carboxy-4-hexyl- (9CI)**
(CA INDEX NAME)
OTHER NAMES:
CN DA 1550
CN DiACID 1550
CN DiACID C21
CN Westvaco 1550
CN Westvaco DiACID 1550
CN Westvaco WV 1550
MF C21 H36 O4
CI IDS, COM
LC STN Files: CA, CAPLUS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



D1—CO_2H

70 REFERENCES IN FILE CA (1907 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
70 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.30	6.51

FILE 'CAPLUS' ENTERED AT 09:53:26 ON 22 SEP 2003
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FILE COVERS 1907 - 22 Sep 2003 VOL 139 ISS 13
FILE LAST UPDATED: 21 Sep 2003 (20030921/ED)

This file contains CAS Registry Numbers for easy and accurate

substance identification.

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=> l1
L2          70 L1

=> l1/prep
            70 L1
       3054238 PREP/RL
L3          12 L1/PREP
                 (L1 (L) PREP/RL)

=> d l3  5-12 ti fbib abs

L3   ANSWER 5 OF 12  CAPLUS  COPYRIGHT 2003 ACS on STN
TI   Study on the synthesis of C21 dicarboxylic acid
AN   1998:574611  CAPLUS
DN   129:330455
TI   Study on the synthesis of C21 dicarboxylic acid
AU   Zhang, Shulin; Pang, Dengjia; Yuan, Jun
CS   Department of Chemical Engineering, Hebei University of Science and
     Technology, Shijiazhuang, 050018, Peop. Rep. China
SO   Riyong Huaxue Gongye (1997), (3), 8-9, 7
     CODEN: RHGOE8; ISSN: 1001-1803
PB   Qinggongyebu Kexue Jishu Qingbao Yanjiuso
DT   Journal
LA   Chinese
AB   A process to produce C21 dicarboxylic acid from castor oil was introduced.
     Linolenic acid was prepd. from castor oil through catalytic removal of
     water at 190- 210.degree. and high pressure hydrolysis, and C21
     dicarboxylic acid was prepd. from the obtained linolenic acid by
     Diels-Alder addn. reaction with iodine catalyst.

L3   ANSWER 6 OF 12  CAPLUS  COPYRIGHT 2003 ACS on STN
TI   Dispersions of blended polycarboxypolyamide resins and alkali dispersible
     resins, their preparation and their use
AN   1998:424308  CAPLUS
DN   129:109707
TI   Dispersions of blended polycarboxypolyamide resins and alkali dispersible
     resins, their preparation and their use
IN   Calhoun, Glenn C.; Sarkis, Michael T.
PA   S.C. Johnson Commercial Markets, Inc., USA
SO   PCT Int. Appl., 66 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 2
     PATENT NO.        KIND  DATE           APPLICATION NO.   DATE
     ---------------   ----  --------       ---------------   --------
PI   WO 9827162         A1   19980625       WO 1997-US23679   19971218
         W:  AU, BR, CA, CN, JP, KR, MX, NZ
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                                            US 1996-770206 A  19961219
     AU 9856159          A1   19980715       AU 1998-56159     19971218
     AU 728596           B2   20010111
                                            US 1996-770206 A  19961219
                                            WO 1997-US23679W  19971218
     EP 946647           A1   19991006       EP 1997-952583    19971218
     EP 946647           B1   20020703
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
                                            US 1996-770206 A  19961219
```

				WO 1997-US23679W 19971218
	CN 1244885	A	20000216	CN 1997-181452 19971218
				US 1996-770206 A 19961219
	BR 9714161	A	20000425	BR 1997-14161 19971218
				US 1996-770206 A 19961219
				WO 1997-US23679W 19971218
	NZ 336352	A	20001124	NZ 1997-336352 19971218
				US 1996-770206 A 19961219
				WO 1997-US23679W 19971218
	JP 2001506310	T2	20010515	JP 1998-528019 19971218
				US 1996-770206 A 19961219
				WO 1997-US23679W 19971218
	AT 220087	E	20020715	AT 1997-952583 19971218
				US 1996-770206 A 19961219
				WO 1997-US23679W 19971218
	ES 2175509	T3	20021116	ES 1997-952583 19971218
				US 1996-770206 A 19961219
	MX 9905764	A	20000228	MX 1999-5764 19990618
				US 1996-770206 A 19961219
				WO 1997-US23679W 19971218

PATENT FAMILY INFORMATION:

FAN 2003:113389

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6518334	B1	20030211	US 2000-532597	20000322
				US 1996-770206 B2	19961219
	CN 1244885	A	20000216	CN 1997-181452	19971218
				US 1996-770206 A	19961219
	ES 2175509	T3	20021116	ES 1997-952583	19971218
				US 1996-770206 A	19961219

AB This invention relates to polymer blends comprising a polycarboxypolyamide resin (30-90%, mol. wt. 500-20,000) with an alkali dispersible resin. This invention also relates to the use of the polymer blends to prep. aq. dispersions. The aq. dispersions were obtained by heating polycarboxypolyamide resins with alkali dispersible resins in an aq. medium. The invention further relates to coating compns. contg. the aq. dispersions. Such coating compns. include inks, floor finishes, overprint varnishes, sizing, paints and adhesives.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
TI Aqueous cold seal release lacquers for packaging materials
AN 1995:991071 CAPLUS
DN 124:120311
TI Aqueous cold seal release lacquers for packaging materials
IN Catena, Robert J.; Adhikari, Prasad K.
PA Sun Chemical Corp., USA
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5466734	A	19951114	US 1994-305224	19940913
	EP 703286	A2	19960327	EP 1995-114236	19950911
	EP 703286	A3	19970402		
	EP 703286	B1	20000614		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, SE				
				US 1994-305224 A	19940913
	AT 193901	E	20000615	AT 1995-114236	19950911

				US 1994-305224 A 19940913
	ES 2146688	T3	20000816	ES 1995-114236 19950911
				US 1994-305224 A 19940913
	CA 2158144	AA	19960314	CA 1995-2158144 19950912
				US 1994-305224 A 19940913

AB Title release varnishes are prepd. by mixing 30-50 parts of polyamide block copolymers having an acid value of 30-45 a wt.-av. mol. wt. of 3,000-5,000, a no.-av. mol. wt. of 2,000-4,000, and a m.p. of 110-125.degree., with amide waxes 1-5, .gtoreq.1 C1 -C4 alkanols 10-20, amines 5-10, and water 15-55 parts and heating to 75-85.degree. for .ltoreq.90 min. A block polyamide was prepd. from dimer acid, ethylene diamine, propionic acid, and Westvaco 1550 diacid and used to form title lacquer with good abrasion and block resistance and low friction coeff. and transfer properties.

L3 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
TI Preparation of quaternary ammonium compounds for use as fabric softeners
AN 1990:161060 CAPLUS
DN 112:161060
TI Preparation of quaternary ammonium compounds for use as fabric softeners
IN Rutzen, Horst; Baumann, Horst; Ploog, Uwe; Uphues, Guenter
PA Henkel K.-G.a.A., Fed. Rep. Ger.
SO PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8909204	A1	19891005	WO 1989-EP337	19890328
	W: DK, JP, KR, US				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
				DE 1988-3811247	19880402
	DE 3811247	A1	19891012	DE 1988-3811247	19880402
	EP 336267	A2	19891011	EP 1989-105483	19890328
	EP 336267	A3	19891025		
	R: ES				
				DE 1988-3811247	19880402

OS MARPAT 112:161060
AB The title compds. R1R2R3R4N+ R5X- [R2 = alkyl; R1 = hydroxyalkyl; R3 = hydroxyalkyl, alkyl, acylamidoalkyl, acyloxyalkyl; R4 = alkyl, acylamidoalkyl, acyloxyalkyl; R5 = hydrocarbyl; X = CO2, OSO3, SO3], useful as softening agents for laundered fabrics, are prepd. Heating 3 mol C12-18 coco fatty acids, 1 mol [H2N(CH2)3]2NMe, and 0.16 g H3PO2 at 200.degree. for 4 h with distn. of H2O gave a waxy amide salt (amine no. 66.4; acid no. 62.7) which (0.24 mol) was quaternized with 0.48 mol oxirane in 213.4 g H2O at 80.degree./3 atm for 2 h.

L3 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
TI Cationic emulsifiers and their use in making aqueous bituminous emulsions and pavement-sealing emulsion-aggregate slurries
AN 1989:411781 CAPLUS
DN 111:11781
TI Cationic emulsifiers and their use in making aqueous bituminous emulsions and pavement-sealing emulsion-aggregate slurries
IN Schilling, Peter; Schreuders, Hans G.
PA Westvaco Corp., USA
SO U.S., 8 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4810299	A	19890307	US 1988-197100	19880520
	US 4877457	A	19891031	US 1988-263440	19881027
				US 1988-197100	19880520
	US 5008382	A	19910416	US 1989-370052	19890720
				US 1988-197100	19880520
				US 1988-263440	19881027
	EP 451420	A1	19911016	EP 1990-401001	19900411
	R: CH, DE, ES, FR, GB, LI, NL, SE				
				US 1988-197100	19880520
	US 5178674	A	19930112	US 1992-819084	19920109
				EP 1990-401001	19900411

PATENT FAMILY INFORMATION:

FAN 1990:164031

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4877457	A	19891031	US 1988-263440	19881027
				US 1988-197100	19880520
	US 4810299	A	19890307	US 1988-197100	19880520
	US 5008382	A	19910416	US 1989-370052	19890720
				US 1988-197100	19880520
				US 1988-263440	19881027
	US 5178674	A	19930112	US 1992-819084	19920109
				EP 1990-401001	19900411

AB The emulsions and slurries are formed by emulsifying bitumens (asphalt) in water with a novel cation-active emulsifier which is the product of the reaction of a modified polyamine, obtained by reacting a polyalkylene amine with sugar-contg. syrups, preferably molasses, with certain modified polycarboxylic acids and anhydrides. The emulsifier can be used to prep. paving slurry seal mixts. at >100.degree.F.

L3 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
TI Dicarboxylic acids
AN 1976:4485 CAPLUS
DN 84:4485
TI Dicarboxylic acids
IN Ward, Benjamin F.
PA Westvaco Corp., USA
SO Can., 11 pp.
CODEN: CAXXA4
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 971577	A1	19750722	CA 1972-154600	19721023
				CA 1972-154600	19721023

GI For diagram(s), see printed CA Issue.
AB On heating a mixt. of distd. tall oil fatty acids with CH2:CHCO2H at 250.degree. in the presence of iodine the linoleic acid portion of the fatty acids underwent addn. reaction to give the dicarboxylic acid I (x = 2, 3) and linoleic free tall oil fatty acids. I was sepd. from the reaction mixt. by fractional distn. and was further purifd. via distn. of its di-Me ester.

L3 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
TI Dicarboxylic acid from linoleic acid
AN 1975:458269 CAPLUS
DN 83:58269
TI Dicarboxylic acid from linoleic acid
IN Ward, Benjamin Franklin

PA Westvaco Corp., USA
SO Brit., 6 pp.
CODEN: BRXXAA
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 1373316	A	19741106	GB 1972-48767	19721023
			GB 1972-48767	19721023

GI For diagram(s), see printed CA Issue.
AB The title decarboxylic acid I (R = 2- or 3-CO2H) was prepd. from the linoleic acid portion of distd. tall oil fatty acids by treating the mixt. with CH2:CHCO2H in the presence of iodine; I was sepd. from the fatty acids (now linoleic acid-free) by fractional distn. Thus, treatment of a tall oil-derived fatty acid mixt. contg. 41.4 wt. % linoleic acid with CH2:CHCO2H and 0.15 wt. % iodine 0.75 hr at 250.degree. gave a mixt. contg. 42 wt. % I and 0.6 wt. % linoleic acid.

L3 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
TI Dicarboxylic acid from linoleic acid-containing fatty acid mixtures
AN 1974:569214 CAPLUS
DN 81:169214
TI Dicarboxylic acid from linoleic acid-containing fatty acid mixtures
IN Ward, Benjamin F.
PA Westvaco Corp.
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 2406401	A1	19740829	DE 1974-2406401	19740211
DE 2406401	B2	19790920		
DE 2406401	C3	19800529		
			US 1973-331957	19730212
CA 1016539	A1	19770830	CA 1974-192034	19740207
			US 1973-331957	19730212
GB 1421527	A	19760121	GB 1974-6223	19740211
			US 1973-331957	19730212
JP 49134620	A2	19741225	JP 1974-17481	19740212
			US 1973-331957	19730212

GI For diagram(s), see printed CA Issue.
AB The dicarboxylic acid I (R = R1 = H or CO2H) was prepd. by reaction of tall oil fatty acid mixts. contg. conjugated and nonconjugated linoleic acid (II) with CH2:CHCO2H (III) in the presence of SO2 or Pd/C for 1-3 hr at .apprx.220-50.degree.. Thus, a distd. tall oil fatty acid mixt. contg. 32% nonconjugated and 10% conjugated II was heated with III in the presence of 0.5% Pd/C for 2 hr at 252.degree. to give 30% I at II conversion 100%. This method allows the sepn. of fatty acids into an oleic acid-like and a dicarboxylic acid portion.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	36.45	42.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.21	-5.21

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 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:58:23 ON 22 SEP 2003

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Welcome to STN International!  Enter x:x

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SESSION RESUMED IN FILE 'CAPLUS' AT 10:01:48 ON 22 SEP 2003
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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      36.45      42.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -5.21      -5.21

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      36.45      42.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -5.21      -5.21

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STRUCTURE FILE UPDATES:   21 SEP 2003  HIGHEST RN 590345-44-1
DICTIONARY FILE UPDATES:  21 SEP 2003  HIGHEST RN 590345-44-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e 2,4,6-Undecatrienoic acid, 11-(1,3-benzodioxol-5-yl)-, (E,E,E)-/cn
E1            1     2,4,6-UNDECATRIENOIC ACID, 11-((TETRAHYDRO-2H-PYRAN-2-YL)OXY
                    )-, ETHYL ESTER, (E,E,E)-/CN
```

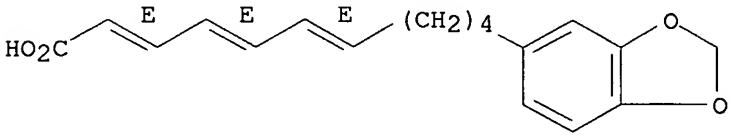
```
E2              1      2,4,6-UNDECATRIENOIC ACID, 11-((TETRAHYDRO-2H-PYRAN-2-YL)OXY
                       )-, METHYL ESTER, (E,E,E)-/CN
E3              1 --> 2,4,6-UNDECATRIENOIC ACID, 11-(1,3-BENZODIOXOL-5-YL)-, (E,E,
                       E)-/CN
E4              1      2,4,6-UNDECATRIENOIC ACID, 11-(1,3-BENZODIOXOL-5-YL)-, METHY
                       L ESTER, (E,E,E)-/CN
E5              1      2,4,6-UNDECATRIENOIC ACID, 11-HYDROXY-, ETHYL ESTER, (E,E,E)
                       -/CN
E6              1      2,4,6-UNDECATRIENOIC ACID, 11-HYDROXY-, METHYL ESTER, (E,E,E
                       )-/CN
E7              1      2,4,6-UNDECATRIENOIC ACID, 11-OXO-, ETHYL ESTER, (E,E,E)-/CN
E8              1      2,4,6-UNDECATRIENOIC ACID, 11-OXO-, METHYL ESTER, (E,E,E)-/C
                       N
E9              1      2,4,6-UNDECATRIENOIC ACID, 2-METHYL-, METHYL ESTER/CN
E10             1      2,4,6-UNDECATRIENOIC ACID, 3-METHYL-7-((1E)-2-(2,6,6-TRIMETH
                       YL-1-CYCLOHEXEN-1-YL)ETHENYL)-, (2E,4E,6Z)-/CN
E11             1      2,4,6-UNDECATRIENOIC ACID, 3-METHYL-7-((1E)-2-(2,6,6-TRIMETH
                       YL-1-CYCLOHEXEN-1-YL)ETHENYL)-, ETHYL ESTER, (2E,4E,6Z)-/CN
E12             1      2,4,6-UNDECATRIENOIC ACID, 3-METHYL-7-((1E)-2-(2,6,6-TRIMETH
                       YL-1-CYCLOHEXEN-1-YL)ETHENYL)-, ETHYL ESTER, (2Z,4E,6Z)-/CN

=> e3
L4              1 "2,4,6-UNDECATRIENOIC ACID, 11-(1,3-BENZODIOXOL-5-YL)-, (E,E,E)-
                  "/CN

=> d l4

L4   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS on STN
RN   58403-60-4  REGISTRY
CN   2,4,6-Undecatrienoic acid, 11-(1,3-benzodioxol-5-yl)-, (E,E,E)-
     (9CI)  (CA INDEX NAME)
FS   STEREOSEARCH
MF   C18 H20 O4
LC   STN Files:   BEILSTEIN*, CA, CAPLUS
         (*File contains numerically searchable property data)

Double bond geometry as shown.
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                  ENTRY    SESSION
FULL ESTIMATED COST                                6.30      49.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                  ENTRY    SESSION
CA SUBSCRIBER PRICE                                0.00      -5.21
```

FILE 'CAPLUS' ENTERED AT 10:02:31 ON 22 SEP 2003

FILE COVERS 1907 - 22 Sep 2003 VOL 139 ISS 13
FILE LAST UPDATED: 21 Sep 2003 (20030921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l4
L5 1 L4

=> d l5 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
TI Carbon-13 NMR spectroscopy. 9. Piperaceae alkaloids. III. Synthesis of N-isobutyl-11-(3,4-methylenedioxyphenyl)undeca-2,4,6-trans,trans,trans-trienoic amide and N-isobutyl-11-(3,4-methylenedioxyphenyl)undeca-2,8,10-trans,trans,trans-trienoic amide (piperstachine)
AN 1976:90357 CAPLUS
DN 84:90357
TI Carbon-13 NMR spectroscopy. 9. Piperaceae alkaloids. III. Synthesis of N-isobutyl-11-(3,4-methylenedioxyphenyl)undeca-2,4,6-trans,trans,trans-trienoic amide and N-isobutyl-11-(3,4-methylenedioxyphenyl)undeca-2,8,10-trans,trans,trans-trienoic amide (piperstachine)
AU Viswanathan, Narayanan; Balakrishnan, Venkatachalam; Joshi, Balawant S.; Von Philipsborn, Wolfgang
CS Ciba-Geigy Res. Cent., Bombay, India
SO Helvetica Chimica Acta (1975), 58(7), 2026-35
CODEN: HCACAV; ISSN: 0018-019X
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The Wittig reaction of trans,trans-Ph3PCH2CH:CHCH:CHCO2Me and aldehyde I yielded acid II which was treated with Me2CHCH2NH2 to give trans,trans,trans-amide III. The condensation of aldehyde IV with Ph3P:CHCO2Me gave acid V which was sapn. and then treated with Me2CHCH2NH2 to give trans,trans,trans-amide VI, which was identical with piperstachine based on uv, ir, NMR, and mass spectra.

=> d l5 it

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
IT Pepper (Piper)
(P. trichostachyon, piperstachine of, synthesis of)
IT Alkaloids, preparation
RL: RCT (Reactant); RACT (Reactant or reagent)

(of Piper trichostachyon, synthesis of)

IT 78-81-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation by, of (methylenedioxyphenyl)undecatrienoic acids)

IT 2969-81-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of piperonal)

IT 120-57-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with ethyl bromobutyrate)

IT 58095-77-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with ethyl bromocaproate)

IT 58403-58-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and Wittig reaction)

IT 58403-70-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and Wittig reaction of, with carbomethoxymethylidene triphenylphosphorane)

IT **58403-60-4P** 58403-71-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and amidation of, with isobutylamine)

IT 41917-45-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and ethylation of)

IT 33543-14-5P 58403-66-0P 58403-67-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydride redn. of)

IT 58403-56-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrogenation of)

IT 58403-64-8P 58403-65-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and methylation of)

IT 58403-57-9P 58403-68-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and oxidn. of)

IT 51276-40-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, with (methylenedioxyphenyl)valeraldehyde)

IT 57110-35-7P 58403-55-7P 58403-59-1P 58403-62-6P 58403-63-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and saponification of)

IT 58403-61-5P 58403-69-3P 58403-72-8P 58403-73-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 25542-62-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (methylenedioxy)cinamnamaldehyde)

IT 2605-67-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (methylenedioxyphenyl)nonadienal)

IT 51010-88-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with triphenylphosphine)
IT 57155-80-3P
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.14	52.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-5.86

FILE 'REGISTRY' ENTERED AT 10:03:19 ON 22 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 21 SEP 2003 HIGHEST RN 590345-44-1
DICTIONARY FILE UPDATES: 21 SEP 2003 HIGHEST RN 590345-44-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> S 58403-71-7/RN

L6 1 58403-71-7/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

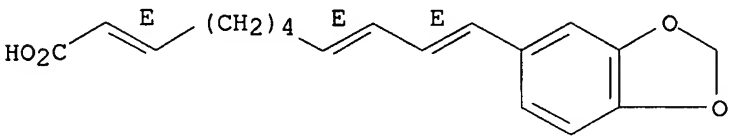
=> D L6 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 5.63 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
RN **58403-71-7** REGISTRY
CN 2,8,10-Undecatrienoic acid, 11-(1,3-benzodioxol-5-yl)-, (E,E,E)- (9CI)
(CA INDEX NAME)
FS STEREOSEARCH
MF C18 H20 O4

LC STN Files: BEILSTEIN*, CA, CAPLUS
        (*File contains numerically searchable property data)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> l6
L7 1 58403-71-7/RN

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.28	55.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.86

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:05:56 ON 22 SEP 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 10:07:18 ON 22 SEP 2003
FILE 'REGISTRY' ENTERED AT 10:07:18 ON 22 SEP 2003

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.28	55.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

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                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                        0.00      -5.86

=> e 2,4,6,8-Nonatetraenoic acid, 9-(4-methoxy-2,3,6-trimethylphenyl)-7-methyl-
, (all-E)-/cn
E1            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7,8-DIMETHYL-/CN
E2            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-/CN
E3            0 --> 2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-      , (ALL-E)-/CN
E4            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-, (ALL-E)-/CN
E5            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-, ETHYL ESTER/CN
E6            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-, METHYL ESTER, (ALL-E)-/CN
E7            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-, METHYL ESTER, (E,E,E,Z)-/CN
E8            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-3-(TRIFLUOROMETHYL)-, ETHYL ESTER, (ALL-E)-/CN
E9            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-3-(TRIFLUOROMETHYL)-, ETHYL ESTER, (Z,E,E,E)-/
                     CN
E10           1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3-DIMETHYL-1-NAP
                     HTHALENYL)-3,7-DIMETHYL-, ETHYL ESTER/CN
E11           1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,5-DIMETHYLPHENYL
                     )-3,7-DIMETHYL-, (ALL-E)-/CN
E12           1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,5-DIMETHYLPHENYL
                     )-3,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-/CN

=> e 2,4,6,8-Nonatetraenoic acid, 9-(4-methoxy-2,3,6-trimethylphenyl)-7-methyl-/cn
E1            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-4,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-/CN
E2            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7,8-DIMETHYL-/CN
E3            1 --> 2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-/CN
E4            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-, (ALL-E)-/CN
E5            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-, ETHYL ESTER/CN
E6            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-, METHYL ESTER, (ALL-E)-/CN
E7            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-, METHYL ESTER, (E,E,E,Z)-/CN
E8            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-3-(TRIFLUOROMETHYL)-, ETHYL ESTER, (ALL-E)-/CN
E9            1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHE
                     NYL)-7-METHYL-3-(TRIFLUOROMETHYL)-, ETHYL ESTER, (Z,E,E,E)-/
                     CN
E10           1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3-DIMETHYL-1-NAP
                     HTHALENYL)-3,7-DIMETHYL-, ETHYL ESTER/CN
E11           1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,5-DIMETHYLPHENYL
                     )-3,7-DIMETHYL-, (ALL-E)-/CN
E12           1      2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,5-DIMETHYLPHENYL
                     )-3,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-/CN

=> e3
L8            1 "2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL
                )-7-METHYL-"/CN
```
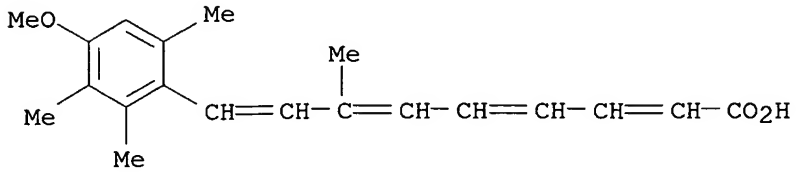

=> d l8

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
RN 106687-63-2 REGISTRY
CN **2,4,6,8-Nonatetraenoic acid, 9-(4-methoxy-2,3,6-trimethylphenyl)-7-methyl- (9CI)** (CA INDEX NAME)
FS 3D CONCORD
MF C20 H24 O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	9.58	61.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.86

FILE 'CAPLUS' ENTERED AT 10:08:09 ON 22 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 22 Sep 2003 VOL 139 ISS 13
FILE LAST UPDATED: 21 Sep 2003 (20030921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

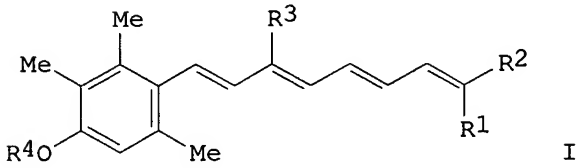
=> l8
L9 1 L8

=> d l9 ti fbib abs

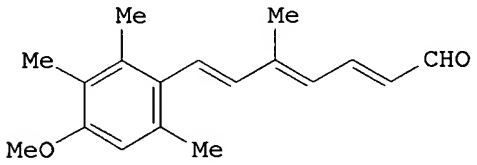
L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
TI Polyene compounds useful in the treatment of allergic responses
AN 1987:84148 CAPLUS
DN 106:84148
TI Polyene compounds useful in the treatment of allergic responses
IN Loev, Bernard; Chan, Wan Kit
PA USV Pharmaceutical Corp., USA
SO U.S., 4 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4621099	A	19861104	US 1985-778952	19850923
				US 1985-778952	19850923

OS CASREACT 106:84148
GI



I



II

AB Title compds. I (R1 = R3 = H, alkyl; R2 = carboxy, carboxy salts; R4 = H, alkyl, aralkyl) are prepd. for treatment of inflammation and allergy. Thus, phenylheptatrienal II was olefinated by tri-Et 2-phosphonopropionate and NaH followed by sapon. to afford I (R1 = R3 = R4 = Me; R2 = CO2H), which inhibited 5-lipoxygenase in vitro.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.67	65.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-6.51

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:09:56 ON 22 SEP 2003

Connecting via Winsock to STN

```
Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:58:44 ON 22 SEP 2003
FILE 'CAPLUS' ENTERED AT 10:58:44 ON 22 SEP 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    3.67      65.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -0.65      -6.51

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    3.67      65.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -0.65      -6.51

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:58:52 ON 22 SEP 2003

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:41:40 ON 22 SEP 2003
FILE 'CAPLUS' ENTERED AT 11:41:40 ON 22 SEP 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    3.67      65.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -0.65      -6.51

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    4.08      66.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
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CA SUBSCRIBER PRICE -0.65 -6.51

FILE 'REGISTRY' ENTERED AT 11:41:59 ON 22 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 SEP 2003 HIGHEST RN 590345-44-1
DICTIONARY FILE UPDATES: 21 SEP 2003 HIGHEST RN 590345-44-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

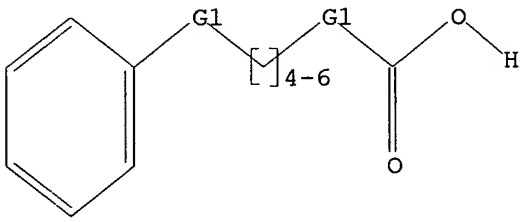
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 10025947 rce 2nd action 3rd try.str

L10 STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10 STR



G1 CH2,O,S,N
G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> search l10 sss sam
SAMPLE SEARCH INITIATED 11:42:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 47101 TO ITERATE

2.1% PROCESSED 1000 ITERATIONS 6 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

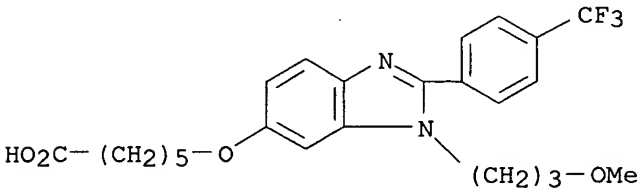
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 929107 TO 954933

PROJECTED ANSWERS: 4644 TO 6660

L11 6 SEA SSS SAM L10

=> d scan

L11 6 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Hexanoic acid, 6-[[1-(3-methoxypropyl)-2-[4-(trifluoromethyl)phenyl]-1H-benzimidazol-6-yl]oxy]- (9CI)
MF C24 H27 F3 N2 O4



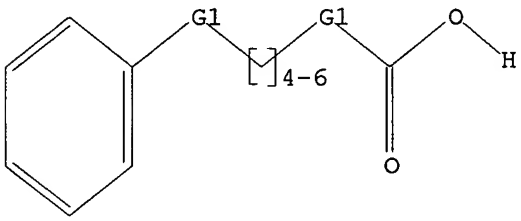
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Uploading 10025947 rce 2nd action 3rd try.str

L12 STRUCTURE UPLOADED

=> d l12
L12 HAS NO ANSWERS
L12 STR



G1 CH2,O,S,N
G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> search l12 sss sam
SAMPLE SEARCH INITIATED 11:44:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 41994 TO ITERATE

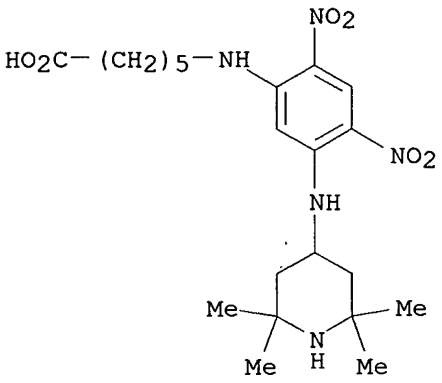
2.4% PROCESSED 1000 ITERATIONS 3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 827676 TO 852084
PROJECTED ANSWERS: 1846 TO 3192

L13 3 SEA SSS SAM L12

=> d scan

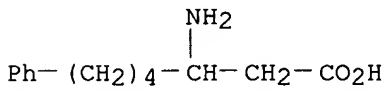
L13 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Hexanoic acid, 6-[[2,4-dinitro-5-[(2,2,6,6-tetramethyl-4-piperidinyl)amino]phenyl]amino]- (9CI)
MF C21 H33 N5 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

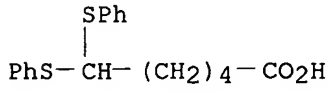
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

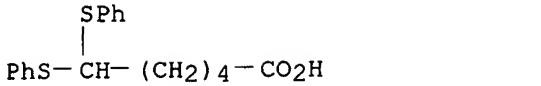
L13 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Benzeneheptanoic acid, .beta.-amino- (9CI)
MF C13 H19 N O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Hexanoic acid, 6,6-bis(phenylthio)- (9CI)
MF C18 H20 O2 S2





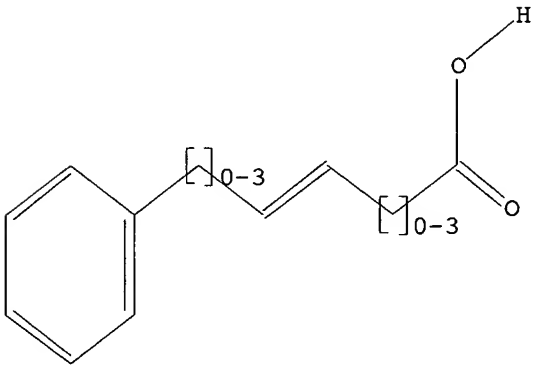
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=>
Uploading 10025947 rce 2nd action 3rd try.str

L14 STRUCTURE UPLOADED

=> d l14
L14 HAS NO ANSWERS
L14 STR



G1 CH2,O,S,N
G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> search l14 sss sam
SAMPLE SEARCH INITIATED 11:47:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6576 TO ITERATE

15.2% PROCESSED 1000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 126661 TO 136379
PROJECTED ANSWERS: 22491 TO 26697

L15 50 SEA SSS SAM L14

=> dscan
0 DSCAN

L16 0 DSCAN

=> search l14 sss sam
SAMPLE SEARCH INITIATED 11:48:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6576 TO ITERATE

15.2% PROCESSED 1000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

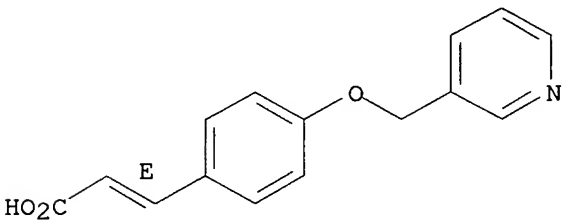
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 126661 TO 136379
PROJECTED ANSWERS: 22491 TO 26697

L17 50 SEA SSS SAM L14

=> d scan

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 3-[4-(3-pyridinylmethoxy)phenyl]-, (2E)- (9CI)
MF C15 H13 N O3

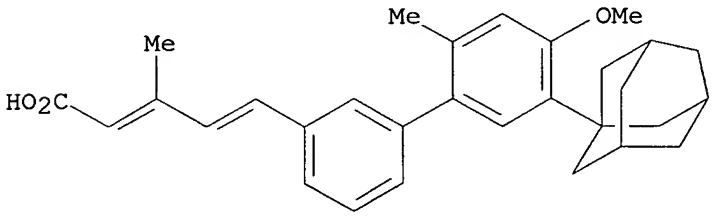
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

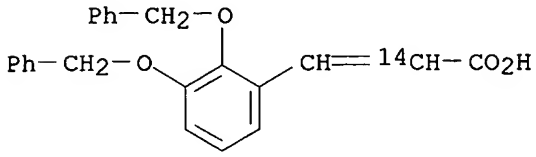
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2,4-Pentadienoic acid, 5-(4'-methoxy-2'-methyl-5'-tricyclo[3.3.1.13,7]dec-1-yl[1,1'-biphenyl]-3-yl)-3-methyl- (9CI)
MF C30 H34 O3



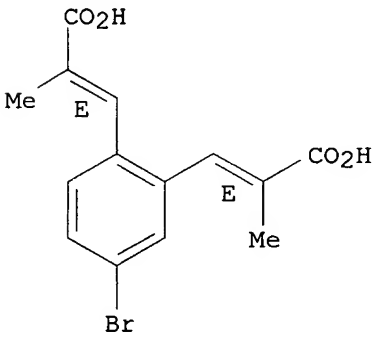
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic-2-14C acid, 3-[2,3-bis(phenylmethoxy)phenyl]- (9CI)
MF C23 H20 O4



L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 3,3'-(4-bromo-1,2-phenylene)bis[2-methyl-, (2E,2'E)-(9CI)
MF C14 H13 Br O4

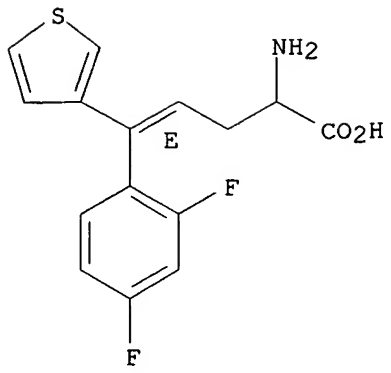
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

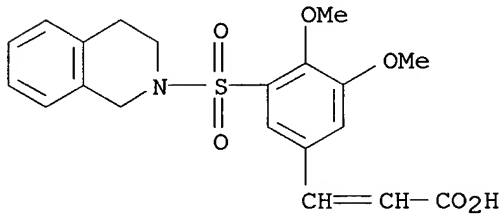
L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 4-Pentenoic acid, 2-amino-5-(2,4-difluorophenyl)-5-(3-thienyl)-, (4E)-(9CI)
MF C15 H13 F2 N O2 S
CI COM

Double bond geometry as shown.



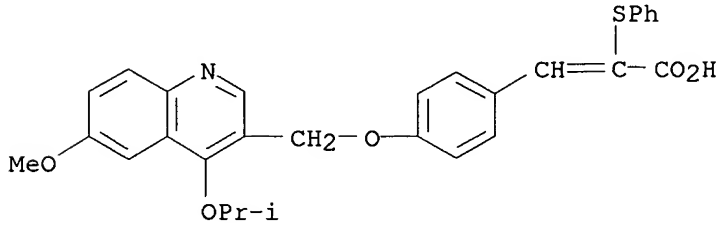
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 3-[3-[(3,4-dihydro-2(1H)-isoquinolinyl)sulfonyl]-4,5-dimethoxyphenyl]- (9CI)
MF C20 H21 N O6 S



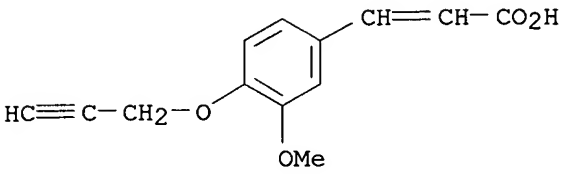
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 3-[4-[[6-methoxy-4-(1-methylethoxy)-3-quinolinyl]methoxy]phenyl]-2-(phenylthio)- (9CI)
MF C29 H27 N O5 S



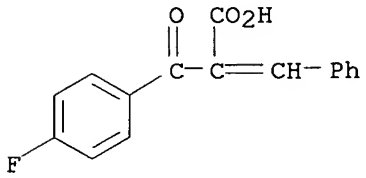
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 3-[3-methoxy-4-(2-propynyloxy)phenyl]- (9CI)
MF C13 H12 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

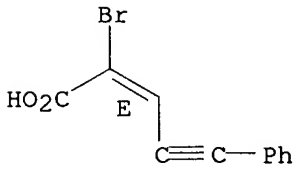
L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Benzenepropanoic acid, 4-fluoro-.beta.-oxo-.alpha.-(phenylmethylene)- (9CI)
MF C16 H11 F O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Penten-4-ynoic acid, 2-bromo-5-phenyl-, (2E)- (9CI)
MF C11 H7 Br O2

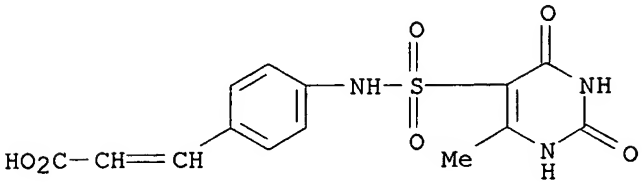
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 3-[4-[[(1,2,3,4-tetrahydro-6-methyl-2,4-dioxo-5-

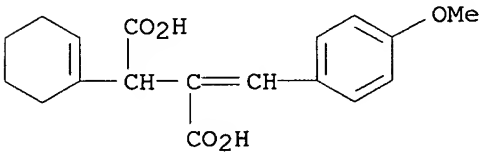
pyrimidinyl)sulfonyl]amino]phenyl]- (9CI)
MF C14 H13 N3 O6 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

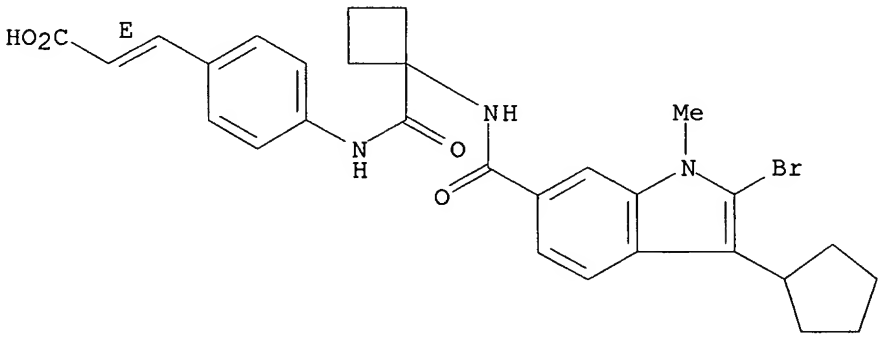
L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Butanedioic acid, 1-cyclohexen-1-yl[(4-methoxyphenyl)methylene]- (9CI)
MF C18 H20 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

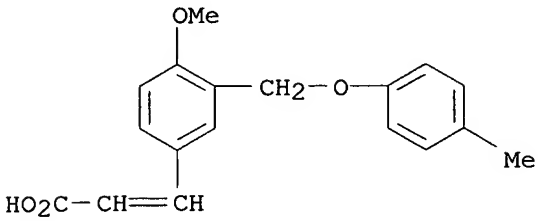
L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 3-[4-[[[1-[[(2-bromo-3-cyclopentyl-1-methyl-1H-indol-6-yl)carbonyl]amino]cyclobutyl]carbonyl]amino]phenyl]-, (2E)- (9CI)
MF C29 H30 Br N3 O4

Double bond geometry as shown.



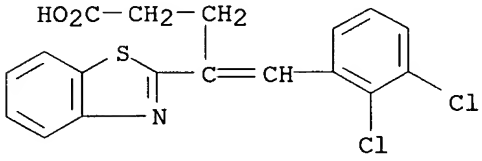
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 3-[4-methoxy-3-[(4-methylphenoxy)methyl]phenyl]- (9CI)
MF C18 H18 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

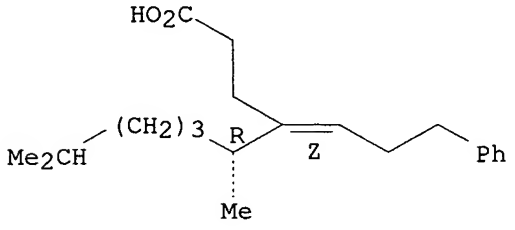
L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Benzothiazolebutanoic acid, .gamma.-[(2,3-dichlorophenyl)methylene]- (9CI)
MF C18 H13 Cl2 N O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

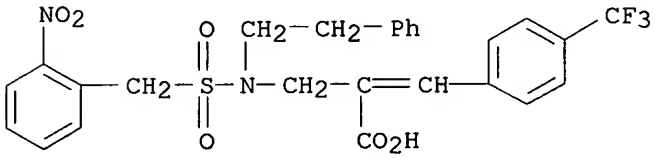
L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C21 H32 O2

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

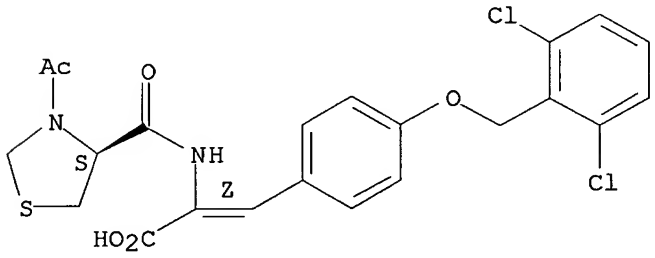
L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 2-[[[[(2-nitrophenyl)methyl]sulfonyl](2-phenylethyl)amino]methyl]-3-[4-(trifluoromethyl)phenyl]- (9CI)
MF C26 H23 F3 N2 O6 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propenoic acid, 2-[[[(4S)-3-acetyl-4-thiazolidinyl]carbonyl]amino]-3-[4-[(2,6-dichlorophenyl)methoxy]phenyl]-, (2Z)- (9CI)
MF C22 H20 Cl2 N2 O5 S

Absolute stereochemistry.
Double bond geometry as shown.



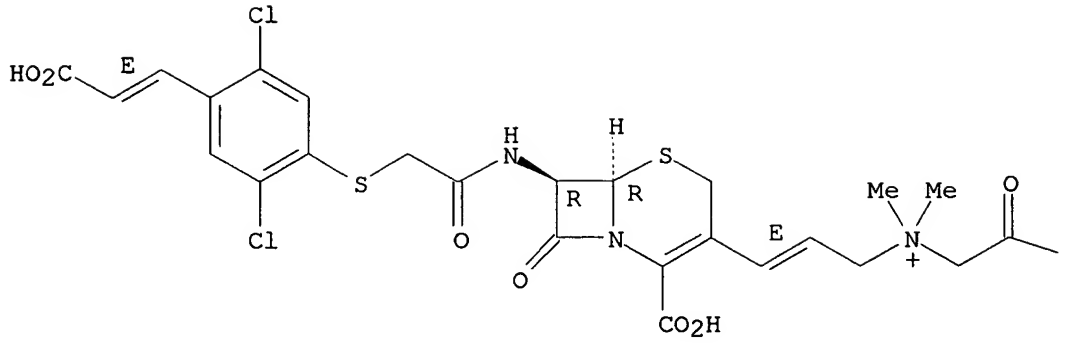
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2-Propen-1-aminium, N-(2-amino-2-oxoethyl)-3-[(6R,7R)-2-carboxy-7-[[[[4-[(1E)-2-carboxyethenyl]-2,5-dichlorophenyl]thio]acetyl]amino]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]-N,N-dimethyl-, (2E)-, salt with trifluoroacetic acid (1:1) (9CI)
MF C25 H27 Cl2 N4 O7 S2 . C2 F3 O2

CM 1

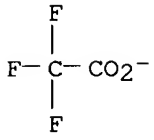
Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

CM 2

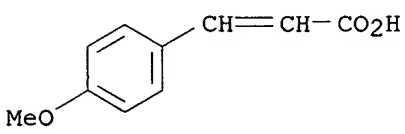


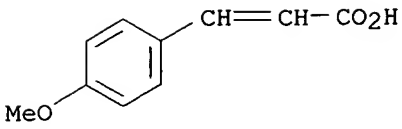
L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Cellulose, 2-(2-hydroxy-1-oxopropoxy)propanoate 3-(4-methoxyphenyl)-2-propenoate (9CI)
MF C10 H10 O3 . x C6 H10 O5 . x Unspecified

CM 1

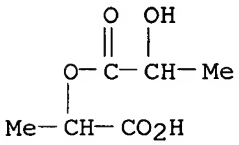
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2



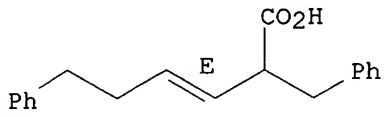


CM 3



L17 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Benzenepropanoic acid, .alpha.-[(1E)-4-phenyl-1-butenyl]- (9CI)
MF C19 H20 O2

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> e 2-Penten-4-ynoic acid, 2-bromo-5-phenyl-/cn

E1	1	2-PENTEN-4-YNOIC ACID, 2-BROMO-5-(TRIMETHYLSILYL)-, ETHYL ESTER, (E)-/CN
E2	1	2-PENTEN-4-YNOIC ACID, 2-BROMO-5-(TRIMETHYLSILYL)-, ETHYL ESTER, (Z)-/CN
E3	0 -->	2-PENTEN-4-YNOIC ACID, 2-BROMO-5-PHENYL-/CN
E4	1	2-PENTEN-4-YNOIC ACID, 2-BROMO-5-PHENYL-, (2E)-/CN
E5	1	2-PENTEN-4-YNOIC ACID, 2-BROMO-5-PHENYL-, ETHYL ESTER, (2E)-/CN
E6	1	2-PENTEN-4-YNOIC ACID, 2-BROMO-5-PHENYL-, ETHYL ESTER, (Z)-/CN
E7	1	2-PENTEN-4-YNOIC ACID, 2-BROMO-5-PHENYL-, METHYL ESTER, (2E)-/CN
E8	1	2-PENTEN-4-YNOIC ACID, 2-BROMO-5-PHENYL-3-(TRIFLUOROMETHYL)-, 1,1-DIMETHYLETHYL ESTER, (E)-/CN
E9	1	2-PENTEN-4-YNOIC ACID, 2-BROMO-5-PHENYL-3-(TRIFLUOROMETHYL)-, 1,1-DIMETHYLETHYL ESTER, (Z)-/CN
E10	1	2-PENTEN-4-YNOIC ACID, 2-CHLORO-5-(TRIMETHYLSILYL)-, ETHYL ESTER/CN
E11	1	2-PENTEN-4-YNOIC ACID, 2-CHLORO-5-PHENYL-/CN
E12	1	2-PENTEN-4-YNOIC ACID, 2-CHLORO-5-PHENYL-, P-TOLYL ESTER/CN

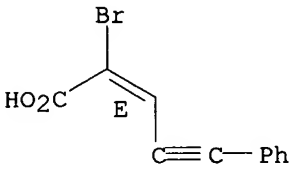
=> e4

L18 1 "2-PENTEN-4-YNOIC ACID, 2-BROMO-5-PHENYL-, (2E)-"/CN

=> d l18

L18 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
RN 444886-89-9 REGISTRY
CN **2-Penten-4-ynoic acid, 2-bromo-5-phenyl-, (2E)- (9CI)** (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H7 Br O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	16.52	82.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.51

FILE 'CAPLUS' ENTERED AT 11:51:20 ON 22 SEP 2003

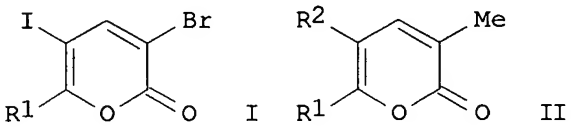
FILE COVERS 1907 - 22 Sep 2003 VOL 139 ISS 13
FILE LAST UPDATED: 21 Sep 2003 (20030921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l18
L19 1 L18

=> d l19 ti fbib abs

L19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
TI Selective synthesis of 5,6-disubstituted 3-methyl-2(2H)-pyranones and 6-substituted 3-methyl-2(2H)-pyranones, including fusalanipyrone and gibepyrone A
AN 2002:261179 CAPLUS
DN 137:140641
TI Selective synthesis of 5,6-disubstituted 3-methyl-2(2H)-pyranones and 6-substituted 3-methyl-2(2H)-pyranones, including fusalanipyrone and gibepyrone A
AU Biagetti, Matteo; Bellina, Fabio; Carpita, Adriano; Viel, Stephane; Mannina, Luisa; Rossi, Renzo
CS Dipartimento di Chimica e Chimica Industriale, Pisa, 56126, Italy
SO European Journal of Organic Chemistry (2002), (6), 1063-1076
CODEN: EJOCFK; ISSN: 1434-193X
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 137:140641
GI



AB The 6-substituted 3-bromo-5-iodo-2(2H)-pyranones I [R = (Z)-MeC:CHMe, Bu, Ph], prepd. by iodolactonization of the corresponding 5-substituted (E)-2-bromo-2-en-4-ynoic acids (Z)-R1C.tplbond.CCH:CBrCO2H, were used as precursors to 5,6-disubstituted 3-methyl-2(2H)-pyranones II (R1 = Bu, R2 = 4-MeOC6H4; R1 = Ph, R2 = BuC.tplbond.C) (III) and 6-substituted 3-methyl-2(2H)-pyranones II [R1 = (Z)-, (E)-MeC:CHMe, Bu, R2 = H] (IV). The synthesis of compds. III involved two consecutive Stille-type reactions, whereas the approach followed to prep. compds. IV consisted of the selective redn. of the dihalogen derivs. I to the corresponding 6-substituted 3-bromo-2(2H)-pyranones, followed by a Pd/Cu-catalyzed reaction with tetramethyltin. However, this synthetic approach to compds. IV proved to be unsuitable for prepg. stereoisomerically pure fusalanipyrone II [R1 = (Z)-MeC:CHMe, R2 = H] (V), a natural product isolated from Fusarium solani. Nevertheless, V and gibepyrone A II [R1 = (E)-MeC:CHMe, R2 = H], which is a natural product isolated from Gibberella fujikuroi, could be synthesized in stereoisomerically pure form by reaction sequences involving iodolactonization of easily available (2Z,6Z)- and (2Z,6E)-2,6-dimethyl-2,6-octadien-4-ynoic acids, resp., followed by Pd-catalyzed triethylammonium formate redn. of the thus obtained 6-substituted 5-iodo-3-methyl-2(2H)-pyranones II [R1 = (Z)-MeC:CHMe, R2 = iodo; R1 = (E)-MeC:CHMe, R2 = iodo], resp.
RE.CNT 91 THERE ARE 91 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	7.84	90.42

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-7.16

FILE 'REGISTRY' ENTERED AT 11:59:17 ON 22 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 SEP 2003 HIGHEST RN 590345-44-1
DICTIONARY FILE UPDATES: 21 SEP 2003 HIGHEST RN 590345-44-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

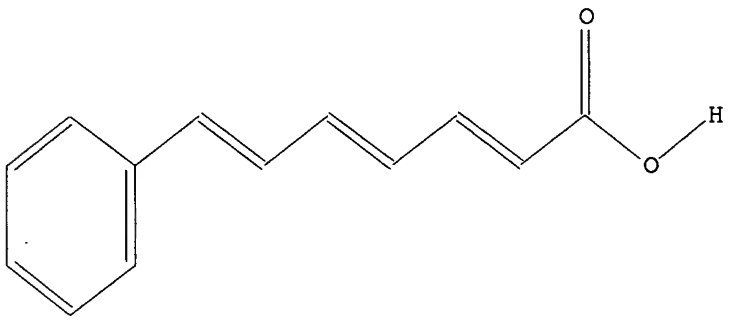
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 10025947 phenylheptatrienoic acid.str

L20 STRUCTURE UPLOADED

=> d l20
L20 HAS NO ANSWERS
L20 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l20 exact full
FULL SEARCH INITIATED 12:01:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5 TO ITERATE

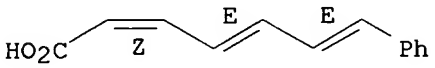
100.0% PROCESSED 5 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L21 3 SEA EXA FUL L20

=> d scan

L21 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2,4,6-Heptatrienoic acid, 7-phenyl-, (2Z,4E,6E)- (9CI)
MF C13 H12 O2

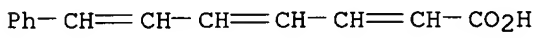
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

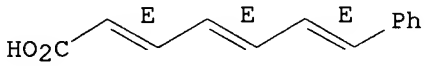
L21 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2,4,6-Heptatrienoic acid, 7-phenyl- (7CI, 8CI, 9CI)
MF C13 H12 O2
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L21 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 2,4,6-Heptatrienoic acid, 7-phenyl-, (E,E,E)- (8CI, 9CI)
MF C13 H12 O2

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> e 2,4,6-Heptatrienoic acid, 7-phenyl-, (E,E,E)-/cn
E1 1 2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-/CN
E2 1 2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, (2Z,4E,6E)-/CN
E3 1 --> 2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, (E,E,E)-/CN
E4 1 2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, ETHYL ESTER/CN
E5 1 2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, ETHYL ESTER, (E,E,E)-/C
N
E6 1 2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, ETHYL ESTER, (Z,E,E)-/C

```
                  N
E7          1     2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, METHYL ESTER/CN
E8          1     2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, METHYL ESTER, (2E,4E,6E
                  )-/CN
E9          1     2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, METHYL ESTER, (2E,4Z,6E
                  )-/CN
E10         1     2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, METHYL ESTER, (E,E,E)-/
                  CN
E11         1     2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-2-((TRIPHENYLPHOSPHORANYL
                  IDENE)AMINO)-, ETHYL ESTER, (Z,E,E)-/CN
E12         1     2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-3-(1-PYRROLIDINYL)-, METH
                  YL ESTER, (E,E,E)-/CN

=> e3
L22         1 "2,4,6-HEPTATRIENOIC ACID, 7-PHENYL-, (E,E,E)-"/CN

=> d l22

L22  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS on STN
RN   10576-63-3  REGISTRY
CN   2,4,6-Heptatrienoic acid, 7-phenyl-, (E,E,E)- (8CI, 9CI)  (CA
     INDEX NAME)
FS   STEREOSEARCH
MF   C13 H12 O2
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMLIST
        (*File contains numerically searchable property data)

Double bond geometry as shown.
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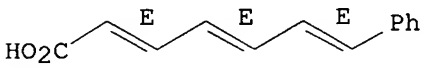


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      58.05     148.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -7.16

FILE 'CAPLUS' ENTERED AT 12:02:56 ON 22 SEP 2003
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
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FILE COVERS 1907 - 22 Sep 2003 VOL 139 ISS 13
FILE LAST UPDATED: 21 Sep 2003 (20030921/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l22
L23 2 L22

=> d l23 1-2 ti fbib abs

L23 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
TI Structural effect in cross conjugative systems. IV. Properties of .alpha.-carboxyphenylpolyenic cyanides and the quantum chemical calculation of orbital energy and bond order
AN 1982:180289 CAPLUS
DN 96:180289
TI Structural effect in cross conjugative systems. IV. Properties of .alpha.-carboxyphenylpolyenic cyanides and the quantum chemical calculation of orbital energy and bond order
AU Liang, Desheng; Lai, Chugen; Chiang, Mingchien
CS Inst. Chem., Acad. Sin., Shanghai, Peop. Rep. China
SO Fenzi Kexue Xuebao (1981-1982) (1981), 1(1), 17-30
CODEN: FKXUDX; ISSN: 0253-3677
DT Journal
LA Chinese
AB all-trans-Ph(CH:CH)nCH:C(CN)CO2H (I) are prepd. and their UV and mass spectra are obsd. The MO, .pi.-energy differences, and .pi.-bond orders of I are calcd. by CNDO/2. The properties of I are correctly calcd. by using the extended form of the homologous equation for the corresponding linear conjugated system (.omega.-phenylpolyenic nitriles) with an .alpha.-CO2H group substituent. Cross-conjugated systems may be generally treated by allowing 1 of the 2 branches to become the terminal group of a linear conjugated system while the other branch becomes the substituent.

L23 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
TI Palladium-catalyzed arylation of conjugated dienes
AN 1979:22447 CAPLUS
DN 90:22447
TI Palladium-catalyzed arylation of conjugated dienes
AU Patel, Babu A.; Dickerson, James E.; Heck, Richard F.
CS Dep. Chem., Univ. Delaware, Newark, DE, USA
SO Journal of Organic Chemistry (1978), 43(26), 5018-20
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
AB CH2:CHCH:CHCO2H was arylated, using a Pd(OAc)2-PPh3 catalyst in the presence of Et3N, with PhBr and 3,4-(CH2O2)C6H3Br in 92% and 60% yield, resp. PhCH:CHBr reacted under similar conditions to give 57% Ph(CH:CH)3CO2H. Other conjugated dienes were best arylated if basic secondary amines (piperidine or morpholine) were used instead of Et3N, in which case arylated butenylamines were major products. Reactions of isoprene and 1,3-cyclohexadiene, -pentadiene and 1,3-butadiene are described.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.50	154.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.30	-8.46

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:05:17 ON 22 SEP 2003